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| APPLICATION NO.      | FILING DATE                   | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|----------------------|-------------------------------|----------------------|---------------------|------------------|
| 10/658,808           | 09/08/2003                    | Geoffrey B. Rhoads   | P0880               | 1809             |
| 23735<br>DIGIMARC C  | 7590 05/15/2007<br>ORPORATION | EXAMINER             |                     |                  |
| 9405 SW GEMINI DRIVE |                               |                      | CHEN, SHIN HON      |                  |
| BEAVERTON, OR 97008  |                               |                      | ART UNIT            | PAPER NUMBER     |
|                      |                               |                      | 2131 .              |                  |
|                      |                               |                      |                     |                  |
|                      |                               |                      | MAIL DATE           | DELIVERY MODE    |
|                      | •                             |                      | 05/15/2007          | PAPER            |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| <del></del>  |  | Application No.  | Applicant(s)   |  |  |  |
|--|--|--|--|--|--|--|
| Office Action Summary  |  | 10/658,808   | RHOADS, GEOFFREY B.  |  |  |  |
|  |  | Examiner   | Art Unit   |  |  |  |
|  |  | Shin-Hon Chen  | 2131   |  |  |  |
| Period fo  | The MAILING DATE of this communication apport  | pears on the cover sheet with the c  | orrespondence address  |  |  |  |
| WHIC<br>- Exter<br>after<br>- If NO<br>- Failu<br>Any I  | ORTENED STATUTORY PERIOD FOR REPLEHEVER IS LONGER, FROM THE MAILING DOSING STATE IN THE MAILING STATE IN THE MAILI | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). |  |  |  |
| Status   |  |  |  |  |  |  |
| 1)⊠  | Responsive to communication(s) filed on <u>08 S</u>  | entember 2003  |  |  |  |  |
| · —  |  | s action is non-final.   |  |  |  |  |
| . 3)   | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is  |  |  |  |  |  |
| ,  | closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  |  |  |  |  |  |
| Dispositi  | on of Claims   |  |  |  |  |  |
| 4)⊠  | Claim(s) 1-52 is/are pending in the application  |  |  |  |  |  |
| •  | 4a) Of the above claim(s) is/are withdrawn from consideration.   |  |  |  |  |  |
|  | 5) Claim(s) is/are allowed.  |  |  |  |  |  |
| · · · · · · · · · · · · · · · · · · ·  | S)   |  |  |  |  |  |
|  | Claim(s) is/are objected to.   |  |  |  |  |  |
| 8)□  | Claim(s) are subject to restriction and/o  | r election requirement.  |  |  |  |  |
| Applicati  | on Papers  |  |  |  |  |  |
| 9)□  | The specification is objected to by the Examine  | er   |  |  |  |  |
| 10)⊠ The drawing(s) filed on <u>08 September 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.           |  |  |  |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).                  |  |  |  |  |  |  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). |  |  |  |  |  |  |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.             |  |  |  |  |  |  |
| Priority u   | nder 35 U.S.C. § 119   |  |  |  |  |  |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).                          |  |  |  |  |  |  |
| a) All b) Some * c) None of:   |  |  |  |  |  |  |
|  | 1. Certified copies of the priority documents have been received.  |  |  |  |  |  |
| 2. Certified copies of the priority documents have been received in Application No                                       |  |  |  |  |  |  |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage                    |  |  |  |  |  |  |
| application from the International Bureau (PCT Rule 17.2(a)).  |  |  |  |  |  |  |
| * See the attached detailed Office action for a list of the certified copies not received.                               |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Attachmen  | t(s)   |  |  |  |  |  |
|  | e of References Cited (PTO-892)  | 4) Interview Summary   |  |  |  |  |
|  | e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08)   | Paper No(s)/Mail Da 5) Notice of Informal P  |  |  |  |  |
|  | Paper No(s)/Mail Date 6) Other:  |  |  |  |  |  |

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## **DETAILED ACTION**

1. Claims 1-52 have been examined.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-4 and 6-48 are rejected under 35 U.S.C. 102(e) as being anticipated by Tone et al. U.S. Pat. No. 6640306 (hereinafter Tone).
- 4. As per claim 1, Tone discloses a method for utilizing a title signal contained in digital data through a comparison of the title signal to a player signal stored in a player device, the method comprising the steps of: downloading the digital data having the title signal via an Internet connection (Tone: column 4 lines 27-32); transferring the downloaded digital data to the player device (Tone: column 6 lines 7-13); detecting, at the player device, the title signal in the data: comparing the title signal to the player signal (Tone: column 7 lines 7-14); and performing an action based upon the comparison (Tone: column 7 lines 12-14).

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5. As per claim 2, Tone discloses the method of claim 1. Tone discloses that the data can be transmitted through any communication link and the data comprises any data not limited to streaming video or audio data (Tone: column 6 lines 29-36).

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- 6. As per claim 3, Tone discloses the method of claim 1. Tone further discloses wherein the player signal is indicative of an attribute of the device, device user, data, or data owner (Tone: column 7 line 7-9: owner ID of the device).
- 7. As per claim 4, Tone discloses the method of claim 1. Tone further discloses wherein the title signal is a watermark signal, or a subsignal thereof, encoded in the digital data, wherein the method further comprises the steps of: extracting the watermark signal from the digital data; and decoding the watermark signal or subsignal thereof (Tone: figure 11 and column 11 line 49 column 12 line 6).
- 8. As per claim 6, Tone discloses the method of claim 1. Tone further discloses wherein the action is performed if the title signal matches the player signal (Tone: column 7 lines 7-14).
- 9. As per claim 7, Tone discloses the method of claim 1. Tone further discloses wherein the action is to inform the device user of the match and at least one consequence thereof (Tone: column 9 lines 12-17).

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- 10. As per claim 8, Tone discloses the method of claim 7. Tone discloses once the identification data match, the actions can be performed including using data and not limited to notifying the user of business activities (Tone: column 7 lines 12-14).
- 11. As per claim 9, Tone discloses the method of claim 7. Tone further discloses wherein the digital data is digital video data (Tone: column 6 lines 33-36).
- 12. As per claim 10, Tone discloses the method of claim 7. Tone further discloses wherein the digital data is digital audio data (Tone: column 4 lines 10-15).
- 13. As per claim 11, Tone discloses the method of claim 7. Tone further discloses wherein the action is to inform the device user of the match and of the player signal (Tone: column 7 lines 7-14).
- 14. As per claim 12, Tone discloses the method of claim 3. Tone further discloses wherein the player signal is indicative of a device number (Tone: column 7 lines 7-8).
- 15. As per claim 13, Tone discloses the method of claim 1. Tone further discloses the step of encoding the title signal in a time varying manner (Tone: column 7 lines 40-47).

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16. As per claim 14, Tone discloses the method of claim 3. Tone further discloses the step of inputting the player signal to the player device prior to the comparing step (Tone: column 7 lines 60-62).

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- 17. As per claim 15, Tone discloses the method of claim 6. Tone further discloses wherein perfect matching between the title signal and player signal is necessary in order to perform the action (Tone: column 7 lines 7-14).
- 18. As per claim 16, Tone discloses the method of claim 6. Tone further discloses wherein imperfect or approximate matching between the title signal and player signal is permitted in order to perform the action (Tone: column 7 lines 7-14).
- 19. As per claim 17, Tone discloses the method of claim 6. Tone further discloses wherein the title signal and player signal contain at least two fields, each field comprising a group of bits, wherein matching of fields between the title signal and player signal is permitted in order to perform the action (Tone: column 7 lines 7-14; column 7 lines 60-62).
- 20. As per claim 18, Tone discloses the method of claim 1. Tone further discloses wherein at least one title signal which when compared to the player signal evokes the performance of the action (Tone: column 7 lines 7-14).

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21. As per claim 19, Tone discloses the method of claim 1. Tone further discloses wherein at least one title signal which when compared to the player signal evokes the performance of the action, is chosen to match at least one targeted demographic group (Tone: column 7 lines 7-14).

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- 22. As per claim 20, Tone discloses the method of claim 1. Tone further discloses wherein the action is performed if the title signal matches the player signal and the action is to inform the device user of the match (Tone: column 9 lines 12-16).
- 23. As per claim 21, Tone discloses the method of claim 1. Tone further discloses wherein the player device is a personal computer and the transferring step comprises storing the downloaded data to a recordable medium readable by the player device (Tone: column 4 lines 4-10).
- 24. As per claim 22, Tone discloses the method of claim 21. Tone further discloses wherein the detecting, comparing and performing steps are performed after the storing step is completed (Tone: column 7 lines 7-14).
- 25. As per claim 24, Tone discloses the method of claim 1. Tone further discloses wherein the player device is a personal computer and at least the detecting step is performed in real time as the digital data is downloaded (Tone: figure 10 and column 10 line 57 column 11 line 48).

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26. As per claim 25-48, claims 25-48 encompass the same scope as claims 1-24. Therefore, claims 25-48 are rejected based on the same reason described in rejecting claims 1-24.

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## Claim Rejections - 35 USC § 103

- 27. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 28. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tone in view of Stefik et al. U.S. Pat. No. 6233684 (hereinafter Stefik).
- 29. As per claim 5, Tone discloses the method of claim 4. Tone does not explicitly disclose wherein the watermark signal contains a copy protection subsignal of a predetermined number of bits, the title signal being a portion of the predetermined number of bits unused by the copy protection subsignal. However, Stefik discloses that embedding watermark into a data to control the distribution or use of data and the watermark provides information about the owner of the data (Stefik: column1 lines 47-54; column 3 lines 31-34). It would have been obvious to one having ordinary skill in the art to embed owner ID of the device into the data as watermark because they serve as digital rights to access data. Therefore, it would have been obvious to one having ordinary skill in the art at the time of applicant's invention to combine the teachings of Stefik within the system of Tone because it controls the distribution and use of digital works.

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- 30. Claims 23, 49-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tone.
- 31. As per claim 23, Tone discloses the method of claim 21. Tone does not explicitly disclose wherein the detecting, comparing and performing steps are performed after the downloaded digital data is partially stored such that the title signal is available for use in the method before the storing step is completed. However, Tone discloses the purpose of protecting the digital data is to embed owner ID into the data. Therefore, the method of communicating the title signal varies depending on the communication method provided (i.e. streaming or on-demand).
- 32. As per claim 49, Tone discloses the method of claim 1. Tone does not explicitly disclose the title information is used as private key. However, one with ordinary skill in the art would understand that comparison/decryption method for authentication is well known and can be interchangeably used based on the designer's choice. Therefore, cryptographic authentication utilizing the same parameter would work equally well in the method disclosed by Tone.
- 33. As per claim 50-52, claims 50-52 encompass the same scope as claims 1-24. Therefore, claims 50-52 are rejected based on the same reason as claims 1-24.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shin-Hon Chen whose telephone number is (571) 272-3789. The examiner can normally be reached on Monday through Friday 8:30am to 5:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Shin-Hon Chen Examiner Art Unit 2131

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